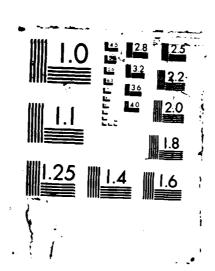
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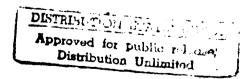
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1. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
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14. MONITORING AGENCY NAME & ADDRESS/II ditter	rent from Controlling Office)	15. SECURITY CLASS. (of this report)
		UNCLASSIFIED
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19. IEY WORDS

Solid State Lasers, Liquid Lasers, Gas Lasers, Chemical Lasers, Laser Components Nonlinear Optics, Spectroscopy of Laser Materials, Ultrashort Pulse Generation, Free Electron Lasers, Laser Theory, Laser Biological Effects, Laser Communications, Laser Beam Propagation, Adaptive Optics, Laser Computer Technology, Holography, Laser Chemical Effects, Laser Parameters, Laser Measurement Applications, Laser-Excited Optical Effects, Laser Spectroscopy, Laser Beam-Target Interaction, Laser Plasma

20. ABSTRACT

This is the Soviet Laser Bibliography for May-June 1986, and is No. 83 in a continuing series on Soviet laser developments. The coverage includes basic research on solid state, liquid, gas, and chemical lasers; components; nonlinear optics; spectroscopy of laser materials; ultrashort pulse generation; theoretical aspects of advanced lasers; and general laser theory. Laser applications are listed under biological effects; communications systems; beam propagation; adaptive optics; computer technology; holography; laserinduced chemical reactions; measurement of laser parameters; laser measurement applications; laser-excited optical effects; laser spectroscopy; beam-target interaction; and plasma generation and diagnostics.

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INTRODUCTION

This bibliography has been compiled under an interagency agreement as a continuing effort to document current Soviet-bloc developments in the quantum electronics field. The period covered is May-June 1986, and includes all significant laser-related articles received by us in that interval. The bulk of the entries come from the approximately 30 periodicals which are known to publish the most significant findings in Soviet laser technology. Citations from the Soviet Reference Journals (journals of abstracts) are also included. Laser items from the popular or semipopular press are generally omitted. All sources cited with no parenthetical notation are available at the Library of Congress. A parenthetical entry indicates the secondary source in which the citation was found as a bibliographic entry or abstract, but for which the original source is not currently available at the Library.

Since our computer is not now able to print between lines, superscripts and subscripts are indicated by (sup) and (sub).

We are producing the entire bibliography on computer. To make our bibliography compatible with other data bases, for source abbreviations, we use the letter codens generally used in our own government rather than transliterations of abbreviations used in the Soviet Union. Likewise, we use letter codens to designate affiliations. The authors' affiliations are indicated in parentheses after the authors' names in the text. Empty parentheses indicate that the affiliation was not given. A source abbreviations list, authors' affiliations list, and author index are included in the back of the bibliography.

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I. BASIC RESEARCH

A. SOLID STATE LASERS

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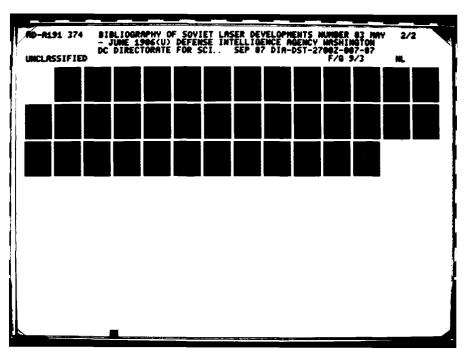
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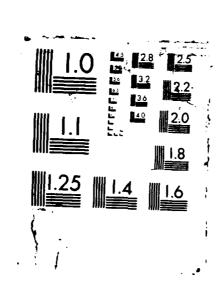
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IV. SOURCE ABBREVIATIONS

(Note: CTC = cover-to-cover translation available)

AKZHA Akusticheskiy zhurnal (CTC)

ANPYA Annalen der Physik (Leipzig)

ARAKB Archiwum akustyki (Warsaw)

ATPLB Acta physica polonica. Series A

AVMEB Avtometriya (CTC)

BWATA Biuletyn Wojskowej akademii technicznej

imeni Jaroslawa Dabrowskiego

CISHPMST International Symposium: High-Purity

Materials, Science and Technology

CIWKIlme Internationales wissenschaftliches Kolloquium,

Ilmenau

SECTION CONTRACTOR CONTRACT CONTRACT CONTRACTOR CONTRAC

CMSPMEKZ Mezhdunarodnyy seminar: Prochnost'

materialov i elementov konstruktsiy pri zvukovykh chastotakh nagruzheniya

CVKKNOpt Vsesoyuznaya konferentsiya po kogerentnoy i

nelineynoy optike

CVSISIzl Vsesoyuznoye soveshchaniye po ispol'zovaniyu

sinkhrotonnogo izlucheniya

CVSMSVSR Vsesoyuznyy simpozium po molekulyarnoy

spektroskopii vysokogo i sverkhvysokogo

razresheniya

CWCIMEKO World Congress of IMEKO [Internationale

Messtechnische Konfoederation, International

Measurement Confederation]

CZYPA Czechoslovak Journal of Physics

DANAA Akademiya nauk Armyanskoy SSR. Doklady

DANKA Akademiya nauk SSSR. Doklady (CTC)

DANUA Akademiya nauk Uzbekskoy SSR. Doklady

DAZRA Akademiya nauk Azerbaydzhanskoy SSR. Doklady

DEFKA Defektoskopiya (CTC)

DUKAB Akademiya nauk Ukrayns'koy RSR. Dopovidi. Seriya A. Fiziko-matematychni ta tekhnichni

nauki

Elektronika (Warsaw) EKNTB

ELKKA Elektrokhimii (CTC)

EOBMA Elektronnaya obrabotka materialov (CTC)

ETFMB Akademiya nauk Estonskoy SSR. Izvestiya.

Fizika, matematika

FXPPA Eksperimentelle Technik der Physik

FGRTA Feitgeraetetechnik

FGVZA Fizika goreniya i vzryva (CTC)

FIPLD Fizika plazmy (Moskva, AN SSSR) (CTC)

FIZSA Fizika v shkole

FKOMA Fizika i khimiya obrabotki materialov

Finomechanika, mikrotechnika (Budapest) **FNMKA**

Fizika nizkikh temperatur (Kiyev) (CTC) FNTED

Fizika i tekhnika poluprovodnikov (CTC) FTPPA

Fizika tverdogo tela (CTC) **FTVTA**

Gigiyena truda i professional'nyye zabolevaniya GTPZA

IANFA Akademiya nauk SSSR. Izvestiya. Seriya

fizicheskaya (CTC)

IFAOA Akademiya nauk SSSR. Izvestiya.

Fizika atmosfery i okeana (CTC)

INFZA Inzhenerno-fizicheskiy zhurnal (CTC)

IUZTA Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya tekhnicheskikh nauk **IVNMA** Akademiya nauk SSSR. Izvestiva. Neorganicheskive materialy (CTC) **IVUBA** Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye (CTC) **IVUFA** Izvestiya vysshikh uchebnykh zavedeniy. Fizika (CTC) **IVUSA** Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye IVUZB Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika Izvestiya vysshikh uchebnykh zavedeniy. **IVYRA** Radiofizika (CTC) **IVZAA** Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka (CTC) IZFMB Akademiya nauk Moldavskoy SSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk IZNMA Akademiya nauk SSSR. Izvestiya. Metally (CTC) IZTEA Izmeritel'naya tekhnika (CTC) **JMKOA** Jemna mechanika a optika KHFID Khimicheskaya fizika (CTC) KHVKA Khimiya vysokikh energiy (CTC) KNLTA Knizhnaya letopis' KRISA Kristallografiya (CTC) **KVEKA** Kvantovaya elektronika (journal, Moskva) (CTC) LFSBA Litovskiy fizicheskiy sbornik (CTC) LZFTA Akademiya nauk Latviyskoy SSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk LZSTA Letopis' zhurnal'nykh statey

MGTDA Magyar tudomany

MTRLB Metrologiya

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NACHA Nachrichtentechnik-Elektronik (GDR)

OKNOA Okeanologiya (CTC)

OPAPB Optica applicata (Poland)

OPMPA Optiko-mekhanicheskaya promyshlennost' (CTC)

OPSPA Optika i spektroskopiya (CTC)

OTIZD Otkrytiya, izobreteniya (formerly included in OIPOB)

OTPIA Otbor i peredacha informatsii. Fizikomekhanichekiy institut AN UkrSSR.
Respublikanskiy mezhvedomstvennyy sbornik
nauchnykh trudov. Kiyev, Naukova dumka

PFKMD Poverkhnost'. Fizika, khimiya, mekhanika (Moskva)

PNITB Prace naukowe Instytutu technologii elektronowej Politechniki wroclawskiej (Breslau)

PRTEA Pribory i tekhnika eksperimenta (CTC)

PSSAB Physica status solidi (A). Applied Research (GDR)

PSSBB Physica status solidi (B). Basic Research (GDR)

PZTFD Zhurnal tekhnicheskoy fiziki. Pis'ma (CTC)

RADID Nauchnyye trudy vysshikh uchebnykh zavedeniy Litovskoy SSR. Radioelektronika (Kaunas)

RAELA Radiotekhnika i elektronika (journal, Moskva)(CTC)

RATEA Radiotekhnika (journal, Moskva) (CTC)

RELED Radiotekhnika i elektronika (sbornik, Minsk)

RRPQA Revue Roumaine de Physique

RZFZA Referativnyy zhurnal. Fizika

RZGFA Referativnyy zhurnal. Geofizika

RZRAB Referativnyy zhurnal. Radiotekhnika

SAKNA Akademiya nauk Gruzinskoy SSR. Soobshcheniya

SCEFA Studii si cercetari de fizica

SLOZA Slaboproudy obzor

SOMEA Sovetskaya meditsina

SPBAA Spisanie na Bulgarskata Akademiya na Naukite

TEHBA Tehnika (Yugoslavia)

TKMSB Tekhnicheska misul (Sofia)

TKTEA Tekhnika kino i televideniya

TVYTA Teplofizika vysokikh temperatur (CTC)

UFIZA Ukrainskiy fizicheskiy zhurnal (Russian language version) (CTC)

UFNAA Uspekhi fizicheskikh nauk (CTC)

VAFEA Akademiya nauk Belorusskoy SSR. Izvestiya.

Seriya fiziko-energeticheskikh nauk

VBMFA Belorusskiy universitet. Vestnik.

Seriya 1. Matematika, fizika, mekhanika

VBSFA Akademiya nauk Belorusskoy SSR. Izvestiya.

Seriya fiziko-matematicheskikh nauk

VORLA Vestnik otorinolaringologii

VYSAA Vysokomolekulyarnyye soyedineniya.

Seriya A (CTC)

WIFOA Wissenschaft und Fortschritt (GDR)

ZETFA Zhurnal eksperimental'noy i teoreticheskoy

fiziki (CTC)

ZFKHA	Zhurnal fizicheskoy khimii (CTC)
ZFPRA	Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma (CTC)
ZNPFA	Zhurnal nauchnoy i prikladnoy fotografii i kinematografii (CTC)
ZPMFA	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki (CTC)
ZPSBA	Zhurnal prikladnoy spektroskopii (CTC)
ZRBEA	Zarubezhnaya radioelektronika
ZTEFA	Zhurnal tekhnicheskoy fiziki (CTC)
ZUNBA	Zhurnal ushnykh, nosovykh i gorlovykh bolezney
ZVMFA	Zhurnal vychislitel'noy matematiki i matematicheskov fiziki (CTC)

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  Bashkirskiy gosudarstyvennyy universitet
  Bashkir State university
BashMI
  Bashkirskiy meditsinskiy institut
  Bashkir Medical Institute
BGU
  Belorusskiy gos universitet
  Belorussian State University
BPI
  Belorusskiy politekhnicheskiy institut
  Belorussian Polytechnical Institute, Minsk
ChPI
  Chelyabinskiy politekhnicheskiy institut
  Chelyabinsk Politechnical Institute
  Dagestanskiy Gosudarstvennyy Pedagogicheskiy Institut
  Dagestan State Pedagogical Institute
DGU
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FTIANTadzh
  Fiziko-tekhnicheskiy institut AN TadzhSSR
  Physicotechnical Institute, Academy of Sciences
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COSTA PROCESSA TOSSOCO TOTASTATA PROCESSA PROCESSA POSTA POR CONTROL PROCESSA POR CONTROL PROCESSA POR CONTROL PROCESSA PROCESSA POR CONTROL PROCESSA POR CO

FTIANUK Fiziko-tekhnicheskiy institut AN UkrSSR Physicotechnical Institute, Academy of Sciences Ukrainian SSR, Khar'kov FTINT Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR Physicotechnical Institute of Low Temperature Physics, Academy of Sciences Ukrainian SSR, Khar'kov GAZ Gor'kovskiy avtomobil'niy zavod Gor'kiy Automobile Plant GGU Gor'kovskiy qos universitet Gor'kiy State University GIFTI Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut pri Gor'kovskom gos universite Gor'kiy Physicotechnical Research Institute at Gor'kiy State University GNIIKhTES Gos NII khimii i tekhnologii elementoorganicheskikh soyedineniy State Scientific Research Institute of Chemistry and Technology of Organoelemental Compounds Gosudarstvennyy opticheskiy institut im Vavilova State Optical Institute imeni Vavilov, Leningrad Institut atomnoy energii im Kurchatova Institute of Atomic Energy imeni Kurchatov, Moscow Institut avtomatiki i elektrometrii SOAN Institute of Automation and Electronic Measurements, Siberian Branch Academy of Sciences USSR Institut biologicheskoy fiziki AN SSSR Institut of Biological Physics, Academy of Sciences USSR, Pushchino IELAN Institut elektrokhimii AN SSSR Institute of Electrochemistry, Academy of Sciences IEM Institut eksperimental'noy meteorologii Institute of Experimental meteorology, Obninsk Institut fiziki AN AzSSR Institute of Physics, Academy of Sciences

Azerbaydzhan SSR

IFANB

Institut fiziki AN BSSR

Institute of Physics, Academy of Sciences

Belorussian SSR, Minsk

IFANEst

Institut fiziki AN EstSSR

Institute of Physics, Academy of Sciences Estonian SSR

IFANUk

Institut fiziki AN UkrSSR

Institute of Physics, Academy of Sciences Ukrainian SSR,

IFI

Institut fizicheskikh issledovaniy AN ArmSSR

Institute of Physics Research, Academy of Sciences

Armenian SSR

IFP

Institut fizicheskikh problem AN SSSR

Institute of Problems of Physics, Academy of

Sciences USSR

IFPSOAN

Institut fiziki poluprovodnikov SOAN

Institute of Semiconductor Physics, Siberian Branch

Academy of Sciences USSR, Novosibirsk

IFPV

Institut fiziki poluprovodnikov AN LitSSR

Institute of Semiconductor Physics, Academy of Sciences

Lithuanian SSR, Vilnius

IFSOAN

Institut fiziki SOAN

Institute of Physics, Siberian Branch Academy of

Sciences USSR, Krasnoyarsk

TETT

Institut fiziki tverdogo tela AN SSSR

Institute of Solid State Physics, Academy of

Sciences USSR, Chernogolovka

IKAN

Institut kristallografii AN SSSR

Institute of Crystallography, Academy of Sciences

USSR, Moscow

IKhF

Institut khimicheskoy fiziki AN SSSR

Institute of Physics of Chemistry, Academy of Sciences

USSR, Chernogolovka

IKhKG

Institut khimicheskoy kinetiki i goreniya SOAN

Institute of Chemical Kinetics and Combustion,

Siberian Branch Academy of Sciences USSR, Novosibirsk

IMET

Institut metallurgii im Baykova

Institute of Metallurgy imeni Baykov, Moscow

IMMGU

Institut mekhaniki Moskovskogo GU

Institute of Mechanics of Moscow State University

INKhS

Institut neftekhimicheskogo sinteza AN SSSR

Institute of Petrochemical Synthesis, Academy of Sciences USSR, Moscow

IOA

Institut optiki atmosfery SOAN

Institute of Atmospheric Optics, Siberian Branch Academy of Sciences USSR

IOAN

Institut okeanologii AN SSSR

Institute of Oceanography, Academy of Sciences USSR, Moscow

TOF

Institut obshchey fiziki AN SSSR

Institute of General Physics, Academy of Sciences USSR, Moscow

IPANUk

Institut poluprovodnikov AN UkrSSR

Institute of Semiconductors, Academy of Sciences Ukrainian SSR, Kiev

IPF

Institut prikladnoy fiziki AN SSSR

Institute of Applied Physics, Academy of Sciences USSR, Gor'kiy

IPFANBel

Institut prikladnoy fiziki AN BSSR

Institute of Applied Physics, Academy of Sciences Belorussian SSR

IPFANM

Institut prikladnoy fiziki AN MSSR

Institute of Applied Physics, Academy of Sciences Moldavian SSR, Kishinev

IPMe

Institut problem mekhaniki AN SSSR

Institute of Problems of Mechanics, Academy of Sciences USSR, Moscow

IPOnk

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Institute for Problems of Oncology, Academy of Sciences Ukrainian SSR

IPTMOM

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Institute for Problems of the Technology of

Microelectronics and Extra Pure Materials, Academy of Sciences USSR, Chernogolovka

IRE

Institut radiotekhniki i elektroniki AN SSSR Institute of Radioengineering and Electronics, Academy of Sciences USSR, Moscow

ISAN

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Institute of Spectroscopy, Academy of Sciences USSR ISE

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ISPM

Institut sinteticheski h polimernykh materialov AN SSSR, Moscow

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ITEF

Institut teoreticheskoy i eksperimental'noy fiziki Institute of Theoretical and Experimental Physics, Moscow ITeFUk

Institut teoreticheskoy fiziki AN UkrSSR Institute of Theoretical Physics, Academy of Sciences Ukrainian SSR, Kiev

ITF

Institut teplofiziki SOAN

Institute of Thermophysics, Siberian Branch Academy of Sciences USSR, Novosibirsk

ITM

Institut tekhnicheskoy mekhaniki AN UkrSSR Institute of Engineering Mechanics, Academy of Sciences Ukrainian SSR, Dnepropetrovsk

ITMO

Institut teplo- i massoobmena AN BSSR

Institute of Heat and Mass Exchange, Academy of Sciences Belorussian SSR

TTPM

Institut teoreticheskoy i prikladnoy mekhaniki SOAN
Institute of Theoretical and Applied Mechanics, Siberian
Branch Academy of Sciences USSR, Novosibirsk

IVTAN

Institut vysokikh temperatur AN SSSR Institute of High Temperatures, Academy of Sciences USSR

IYaFANUz Institut yadernoy fiziki AN UzSSR Institute of Nuclear Physics, Academy of Sciences Uzbek SSR, Ulugbek **IYaFSOAN** Institut yadernoy fiziki SOAN Institute of Nuclear Physics, Siberian Branch Academy of Sciences USSR, Novosibirsk KaGU Kazanskiy qos universitet Kazan' State University KazFTI Kazanskiy fiziko-tekhnicheskiy institut AN SSSR Kazan' Physicotechnical Institute, Academy of Sciences USSR KazGU Kazakhskiy gos universitet Kazakh State University, Alma Ata Kiyevskiy gos universitet Kiev State University KhGU Khar'kovskiy gos universitet Khar'kov State University KhIIZhT Khar'kovskiy institut inzhenerov zheleznodorozhnogo transporta Khar'kov Institute of Railroad Transport Engineers KIYaI Institut yadernykh issledovaniy AN UkrSSR Institute of Nuclear Research, Academy of Sciences Ukrainian SSR, Kiev KNIIO Kiyevskiy nauchno-issledovatel'skiy institut otolaringologii im A.I. Kolomiychenko Kiyev Scientific Research Institute of Otolaryngology imeni A.I. Kolomiychenko **KPIA** Kiyevskiy politekhnicheskiy institut Kiev Polytechnic Institute Leningradskiy elektrotekhnicheskiy institut Leningrad Electric Engineering Institute LGPI Leningradskiy gos pedagogicheskiy institut Leningrad State Pedagogical Institute

Leningradskiy gos universitet Leningrad State University

LGU

LPI Leningradskiy politekhnicheskiy institut Leningrad Polytechnic Institute L'vovskiy politekhnicheskiy institut L'vov Polytechnic Institute Moskovskiy aviatsionnyy tekhnologicheskiy institut Moscow Aviation Technical Institute MEIS Moskovskiy elektrotekhnicheskiy institut svyazi Moscow Electrotechnical Institute of Communications Moskovskiy fiziko-tekhnicheskiy institut Moscow Physicotechnical Institute Moskovskiy gos universitet Moscow State University MIFI Moskovskiy inzhenerno-fizicheskiy institut Moscow Engineering Physics Institute MIREA Moskovskiy institut radiotekhniki, elektroniki i avtomatiki Moscow Institute of Radio Engineering, Electronics and Automation MISIS Moskovskiy institut stali i splavov Moscow Institute of Steel and Alloys MITKhT Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova Moscow Institute of Fine Chemical Technology imeni Lomonosov Moskovskiy institut upravleniya im Ordzhonikidze Moscow Institute of Control imeni Ordzhonikidze MOPI Moskovskiy oblastnoy pedagogicheskiy institut im. N.K. Krupskoy Moscow Oblast Pedagogical Institute im. N.K. Krupskaya MRI Minskiy radiotekhnicheskiy institut Minsk Radio Engineering Institute MVTU Moskovskoye vyssheye tekhnicheskoye uchilishche im Baumana

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NIKFI

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Scientific Research Institute of Motion Pictures and Photography, Moscow

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    Tomsk
SGI
  Sverdlovskiy gornyy institut
  Sverdlovsk Mining Institute
SKBOptika
 Spetsial'noye konstruktorskoye byuro nauchnogo
    priborostroyeniya "Optika" SOAN
  "Optika" Special Design Bureau for Scientific
    Instrument Manufacture, Siberian Branch Academy
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of Sciences USSR, Tomsk

SKTBSEAP SKTB spetsialnoy elektroniki i analiticheskogo priborostroyeniya, SOAN SSSR, Novosibirsk Special Design and Technology Bureau for Specialized Electronics and Analytical Instrument Manufacture, Siberian Branch Academy of Sciences USSR, Novosibirsk Tashkentskiy gos universitet Tashkent State University TbGU Tbilisskiy gos universitet Tbilisi State University TOI Tikhookeanskiy okeanologicheskiy institut Dal'nevostochnogo nauchnogo tsentra AN SSSR Pacific Oceanographic Institute, Far Eastern Scientific Center, Academy of Sciences USSR, Vladivostok TsNIITEIpriboro TsNII informatsii i tekhniko-ekonomicheskikh issledovaniy priborostroyeniya, sredstv avtomatizatsii i sistem upravleniya Central Scientific Research Institute of Information and Technical Economic Studies on Instrument Manufacture, Means of Automation, and Control Systems, Moscow TulPI Tul'skiy politekhnicheskiy institut Tula Polytechnic Institute IIDN Universitet druzhby narodov im Lumumby University of Friendship Among Peoples imeni Lumumba, Moscow UkrNIINTI Ukrainskiy NII nauchno-tekhnicheskoy informatsii i tekhniko-ekonomicheskikh issledovaniy Gosplana Ukrainian Scientific Research Institute of Scientific and Technical Information and of Technical Economic Studies for the State Plan of the Ukrainian SSR, Kiev UzhGU Uzhqorodskiy qos universitet Uzhqorod State University VGNIPIKFP Vsesoyuznyy gos NI i proyektnyy institut fizikofotograficheskoy promyshlennosti All-Union State Scientific Research and Planning

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